

**IN THE CLAIMS:**

Claims 1-2 are pending in this application, as follows:

1. (Previously Presented) An electrophoresis apparatus comprising:
  - a plurality of capillaries;
  - a voltage applier applying voltage between both ends of the capillaries;
  - a laser light source irradiating a laser; and
  - a fluorescent detector detecting a fluorescence emitted from inside of the capillaries,

wherein each of the plurality of capillaries comprises a first region coated with a polymer, a second region having a surface of the capillary exposed for a predetermined length in the longitudinal direction, and a third region defined between the first and second regions and covered with a tapered polymer coating with a thickness that becomes thinner from the first region to the second region, and

wherein a slope of the surface of the coating of the third region makes an angle of 70 degrees or less from the first region to the second region relative to the longitudinal direction of the capillary.
2. (Previously Presented) An electrophoresis apparatus according to claim 1, wherein a material of the tapered polymer coating is polyimide.
3. (Canceled).